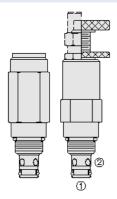
RV08-20 hydraforce.com

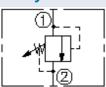
RELIEF VALVE CARTRIDGE DIRECT ACTING POPPET TYPE



Overview



Symbo



Description

RV08-20X is a screw in, cartridge style, direct acting, poppet type, hydraulic relief valve intended for lower flow circuits requiring low internal leakage

Operation

RV08-20X blocks flow from port 1 to port 2 until sufficient pressure is present at port 1 to force the spring opposed poppet off its seat

Features

- Adjustments cannot be backed out of the valve.
- Variety of pressure adjustment options including non-adjustable factory preset.
- Adjustments options A, B, and C: positive stops prevent springs from going solid.
- Optional spring ranges to 248 bar (3600 psi).
- Rapid response to pressure changes.
- Optional bi-directional pressure (requires bi-directional pressure seal option).
- o Compact size.

Notes

Supersession: Existing and new applications.

RVD58-20 Is our best-in-class relief valve and can functionally replace this valve in most applications. We strongly encourage you to consider this newer alternative.

Considerations:

- Comparable pressure and flow ratings
- Comparable response rate





Ratings

Pressure Ratings

Pressure rating 275.8 bar (4000 psi)

482.6 bar (7000 psi)

Burst pressure 896.3 bar (13000 psi)

Relief pressure defined Pressure evident at

0.95 lpm (0.25 gpm)

Reseat pressure Nominal 80% of crack

Flow Ratings

Flow rating 22.7 lpm (6 gpm) - Note: At max pressure

Maximum internal leakage 0.25 ml/min (5 drops/min) - Note: Max to 75% of nominal setting

Temperature Ratings

Operating fluid temperature -40 to 100 °C (-40 to 212 °F) - Note: With buna N seals

-26 to 204 °C (-15 to 400 °F) - **Note:** With fluorocarbon seals -54 to 107 °C (-65 to 225 °F) - **Note:** With urethane seals with

polyurethane seals

Storage temperature -40 to 70 °C (-40 to 160 °F)

Ambient temperature -40 to 70 °C (-40 to 160 °F)

Operating Parameters

Fluids Mineral based or synthetic with lubricating properties

Fluid viscosity range 7.4 to 420 cSt

Maximum operating

contamination level

18/16/13 per ISO 4406

Properties

Unit weight 0.17 kg (0.37 lb) - **Note:** A

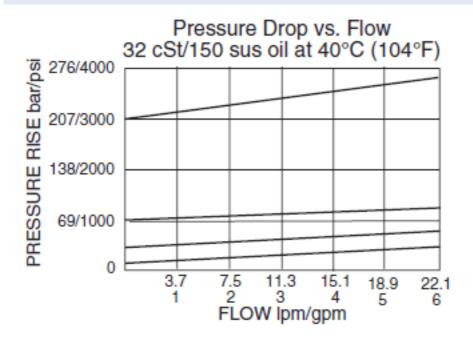
0.19 kg (0.42 lb) - **Note:** B 0.22 kg (0.47 lb) - **Note:** C I 0.16 kg (0.35 lb) - **Note:** F h

Internal wetted surface area 141 cm2; (21.9 in2;) Note: A b c I

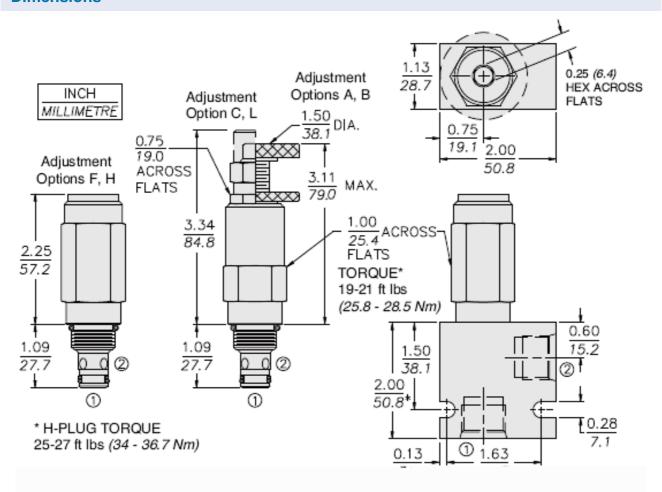
166 cm²; (25.7 in²;) Note: F h



Performance



Dimensions







Materials

Materials

Cartridge: Weight: 0.16 kg (0.35 lb) to 0.22 kg (0.47 lb) depending on adjustment option. Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N O-rings standard. Anodized aluminum knobs and caps.

Standard Ported Body: Weight: 0.16 kg (0.35 lb); Anodized high-strength aluminum alloy, rated to 207 bar (3000 psi). Ductile iron bodies available; dimensions may differ.

Adjustment Option Details: See adjustment options

Installation Specifications

Cavity VC08-2

Cartridge installation torque 25.8 to 28.5 N-m (19 to 21 ft-lb)

Maximum allowable torque 40.7 N-m (30 ft-lb)

H style plug torque 10.8 to 13.6 N-m (8 to 10 ft-lb) - Note: N V P U

34 N-m (25 ft-lb) - Note: NC VC PC max

Orientation restriction None

Accessories

Seal kit SK08-2X-B - Note: X=seal option

SK08-2X-M - Note: X=seal option SK08-2U-O - Note: X=seal option

Housings

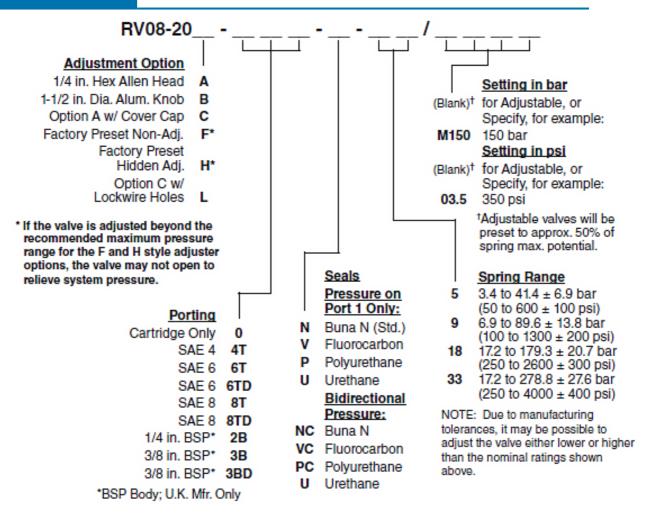




Order Code











RV08-20F-H-J-R/S F Adjustment Option F A 1/4" Hex Allen Head F B 1-1/2" Diameter Aluminum Knob with Aluminum Lock Knob F C 1/4" Hex Allen Head with Cover Cap F F Factory Preset Non-Adjustable F H Factory Preset Hidden Adjustment F L 1/4" Hex Allen Head with Cover Cap and Lockwire Holes H Line Body H O No Body H 4T Aluminum SAE 4 H 6T Aluminum SAE 6 H 8T Aluminum SAE 8 H 6TD Ductile Iron SAE 6 H 8TD Ductile Iron SAE 6 H 8TD Ductile Iron SAE 8 H 2B Aluminum BSPP 1/4" (2) H 3B Aluminum BSPP 3/8" (3) J Seal J N Buna-N J NC Buna-N for Crossover Applications J V Fluorocarbon J VC Fluorocarbon for Crossover Applications J V Polyurethane J P Polyurethane F Polyurethane R Spring R 05 3.4 to 34.5 bar (50 to 500 psi) Spring Range R 18 17.2 to 158.6 bar (250 to 2300 psi) Spring Range S Setting S MXXX Spring Setting in XXX bar S XX Spring Setting in XXX bar	POSITION	CODE	DESCRIPTION
F A 1/4" Hex Allen Head F B 1-1/2" Diameter Aluminum Knob with Aluminum Lock Knob F C 1/4" Hex Allen Head with Cover Cap F F Factory Preset Non-Adjustable F H Factory Preset Hidden Adjustment F L 1/4" Hex Allen Head with Cover Cap and Lockwire Holes Line Body H 0 No Body H 4T Aluminum SAE 4 H 6T Aluminum SAE 6 H 8T Ductile Iron SAE 6 H 8TD Ductile Iron SAE 6 H 8TD Ductile Iron SAE 8 H 2B Aluminum BSPP 1/4" (2) H 3B Aluminum BSPP 3/8" (3) J Seal J N Buna-N J NC Buna-N for Crossover Applications J V Fluorocarbon J VC Fluorocarbon for Crossover Applications J P Polyurethane J PC Polyurethane R Spring R 05 3.4 to 34.5 bar (50 to 500 psi) Spring Range R 18 17.2 to 158.6 bar (250 to 3600 psi) Spring Range Setting S MXXX Spring Setting in XXXX bar			
F B 1-1/2" Diameter Aluminum Knob with Aluminum Lock Knob F C 1/4" Hex Allen Head with Cover Cap F F F Factory Preset Non-Adjustable F H Factory Preset Hidden Adjustment F L 1/4" Hex Allen Head with Cover Cap and Lockwire Holes H Line Body H 0 No Body H 4T Aluminum SAE 4 H 6T Aluminum SAE 6 H 8T Aluminum SAE 8 H 6TD Ductile Iron SAE 6 H 8TD Ductile Iron SAE 8 H 2B Aluminum BSPP 1/4" (2) H 3B Aluminum BSPP 3/8" (3) J Seal J N Buna-N J NC Buna-N for Crossover Applications J V Fluorocarbon J VC Fluorocarbon J VC Fluorocarbon for Crossover Applications J P Polyurethane J PC Polyurethane J PC Polyurethane R Spring R 05 3.4 to 34.5 bar (50 to 500 psi) Spring Range R 18 17.2 to 158.6 bar (250 to 3600 psi) Spring Range S Setting S MXXX Spring Setting in XXXX bar	F		Adjustment Option
F C 1/4" Hex Allen Head with Cover Cap F F Factory Preset Non-Adjustable F H Factory Preset Hidden Adjustment F L 1/4" Hex Allen Head with Cover Cap and Lockwire Holes H Line Body H 0 No Body H 4T Aluminum SAE 4 H 6T Aluminum SAE 6 H 8T Aluminum SAE 8 H 6TD Ductile Iron SAE 6 H 8TD Ductile Iron SAE 8 H 2B Aluminum BSPP 1/4" (2) H 3B Aluminum BSPP 3/8" (3) J Seal J N Buna-N J NC Buna-N for Crossover Applications J V Fluorocarbon for Crossover Applications J V Fluorocarbon for Crossover Applications J P Polyurethane J PC Polyurethane R Spring R 05 3.4 to 34.5 bar (50 to 500 psi) Spring Range R 18 17.2 to 251.2 bar (250 to 3600 psi) Spring Range S Setting S MXXX Spring Setting in XXX bar	F	Α	1/4" Hex Allen Head
F F Factory Preset Non-Adjustable F H Factory Preset Hidden Adjustment F L 1/4" Hex Allen Head with Cover Cap and Lockwire Holes H Line Body H 0 No Body H 4T Aluminum SAE 4 H 6T Aluminum SAE 6 H 8T Aluminum SAE 8 H 6TD Ductile Iron SAE 6 H 8TD Ductile Iron SAE 8 H 2B Aluminum BSPP 1/4" (2) H 3B Aluminum BSPP 3/8" (3) H 3BD Ductile Iron BSPP 3/8" (3) J Seal J N Buna-N J NC Buna-N For Crossover Applications J V Fluorocarbon J VC Fluorocarbon for Crossover Applications J P Polyurethane J PC Polyurethane F Spring F 05 3.4 to 34.5 bar (50 to 500 psi) Spring Range F 18 17.2 to 158.6 bar (250 to 3600 psi) Spring Range S Setting S MXXX Spring Setting in XXX bar	F	В	1-1/2" Diameter Aluminum Knob with Aluminum Lock Knob
F H Factory Preset Hidden Adjustment F L 1/4" Hex Allen Head with Cover Cap and Lockwire Holes H Line Body H 0 No Body H 4T Aluminum SAE 4 H 6T Aluminum SAE 6 H 8T Aluminum SAE 8 H 6TD Ductile Iron SAE 6 H 8TD Ductile Iron SAE 8 H 2B Aluminum BSPP 1/4" (2) H 3B Aluminum BSPP 3/8" (3) H 3BD Ductile Iron BSPP 3/8" (3) J Seal J N Buna-N J NC Buna-N For Crossover Applications J V Fluorocarbon J V Fluorocarbon J VC Fluorocarbon for Crossover Applications J P Polyurethane J PC Polyurethane R Spring R 05 3.4 to 34.5 bar (50 to 500 psi) Spring Range R 18 17.2 to 158.6 bar (250 to 2300 psi) Spring Range S Setting S MXXX Spring Setting in XXX bar	F	С	1/4" Hex Allen Head with Cover Cap
F L 1/4" Hex Allen Head with Cover Cap and Lockwire Holes H Line Body H 0 No Body H 4T Aluminum SAE 4 H 6T Aluminum SAE 6 H 8T Aluminum SAE 8 H 6TD Ductile Iron SAE 8 H 2B Aluminum BSPP 1/4" (2) H 3B Aluminum BSPP 3/8" (3) J Seal J N Buna-N J NC Buna-N for Crossover Applications J V Fluorocarbon J V Fluorocarbon for Crossover Applications J P Polyurethane J P Polyurethane J P Polyurethane R Spring R 05 3.4 to 34.5 bar (50 to 500 psi) Spring Range R 18 17.2 to 158.6 bar (250 to 2300 psi) Spring Range S Setting S MXXX Spring Setting in XXX bar	F	F	Factory Preset Non-Adjustable
H Line Body H 0 No Body H 4T Aluminum SAE 4 H 6T Aluminum SAE 6 H 8T Aluminum SAE 8 H 6TD Ductile Iron SAE 8 H 2B Aluminum BSPP 1/4" (2) H 3B Aluminum BSPP 3/8" (3) J Seal J NC Buna-N J NC Buna-N for Crossover Applications J V Fluorocarbon J V Fluorocarbon for Crossover Applications J P Polyurethane J P Polyurethane J PC Polyurethane J P Polyurethane R Spring R 05 3.4 to 34.5 bar (50 to 500 psi) Spring Range R 18 17.2 to 158.6 bar (250 to 2300 psi) Spring Range R 33 17.2 to 251.2 bar (250 to 3600 psi) Spring Range S Setting S MX	F	Н	Factory Preset Hidden Adjustment
H 0 No Body H 4T Aluminum SAE 4 H 6T Aluminum SAE 8 H 8T Aluminum SAE 8 H 6TD Ductile Iron SAE 8 H 2B Aluminum BSPP 1/4" (2) H 3B Aluminum BSPP 3/8" (3) H 3BD Ductile Iron BSPP 3/8" (3) J Seal J N Buna-N J NC Buna-N for Crossover Applications J V Fluorocarbon J V Fluorocarbon for Crossover Applications J P Polyurethane J PC Polyurethane for Crossover Applications J PC Polyurethane R Spring R 05 3.4 to 34.5 bar (50 to 500 psi) Spring Range R 09 6.9 to 75.8 bar (100 to 1300 psi) Spring Range R 18 17.2 to 158.6 bar (250 to 2300 psi) Spring Range S Setting S MXXX Spring Setting in XXX bar	F	L	1/4" Hex Allen Head with Cover Cap and Lockwire Holes
H 4T Aluminum SAE 4 H 6T Aluminum SAE 6 H 8T Aluminum SAE 8 H 6TD Ductile Iron SAE 6 H 8TD Ductile Iron SAE 8 H 2B Aluminum BSPP 1/4" (2) H 3B Aluminum BSPP 3/8" (3) H 3BD Ductile Iron BSPP 3/8" (3) J Seal J N Buna-N J NC Buna-N for Crossover Applications J V Fluorocarbon J V Fluorocarbon for Crossover Applications J P Polyurethane J PC Polyurethane for Crossover Applications J PC Polyurethane R Spring R 05 3.4 to 34.5 bar (50 to 500 psi) Spring Range R 09 6.9 to 75.8 bar (100 to 1300 psi) Spring Range R 18 17.2 to 158.6 bar (250 to 2300 psi) Spring Range S Setting S MXXX Spring Setting in XXX bar	Н		Line Body
H 6T Aluminum SAE 6 H 8T Aluminum SAE 8 H 6TD Ductile Iron SAE 6 H 8TD Ductile Iron SAE 8 H 2B Aluminum BSPP 1/4" (2) H 3B Aluminum BSPP 3/8" (3) H 3BD Ductile Iron BSPP 3/8" (3) J Seal J N Buna-N J NC Buna-N J V Fluorocarbon J V Fluorocarbon for Crossover Applications J P Polyurethane J PC Polyurethane J PO Polyurethane R Spring R 05 3.4 to 34.5 bar (50 to 500 psi) Spring Range R 09 6.9 to 75.8 bar (100 to 1300 psi) Spring Range R 18 17.2 to 158.6 bar (250 to 2300 psi) Spring Range R 33 17.2 to 251.2 bar (250 to 3600 psi) Spring Range S Setting S MXXX Spring Setting in XXX bar	Н	0	No Body
H 8T Aluminum SAE 8 H 6TD Ductile Iron SAE 6 H 8TD Ductile Iron SAE 8 H 2B Aluminum BSPP 1/4" (2) H 3B Aluminum BSPP 3/8" (3) H 3BD Ductile Iron BSPP 3/8" (3) J Seal J N Buna-N J NC Buna-N for Crossover Applications J V Fluorocarbon J VC Fluorocarbon for Crossover Applications J P Polyurethane J PC Polyurethane G PO Polyurethane R Spring R 05 3.4 to 34.5 bar (50 to 500 psi) Spring Range R 09 6.9 to 75.8 bar (100 to 1300 psi) Spring Range R 18 17.2 to 158.6 bar (250 to 2300 psi) Spring Range S Setting S MXXX Spring Setting in XXX bar	Н	4T	Aluminum SAE 4
H 6TD Ductile Iron SAE 6 H 8TD Ductile Iron SAE 8 H 2B Aluminum BSPP 1/4" (2) H 3B Aluminum BSPP 3/8" (3) H 3BD Ductile Iron BSPP 3/8" (3) J Seal J N Buna-N J NC Buna-N for Crossover Applications J V Fluorocarbon J VC Fluorocarbon for Crossover Applications J P Polyurethane J PC Polyurethane FR Spring R 05 3.4 to 34.5 bar (50 to 500 psi) Spring Range R 09 6.9 to 75.8 bar (100 to 1300 psi) Spring Range R 18 17.2 to 158.6 bar (250 to 2300 psi) Spring Range R 33 17.2 to 251.2 bar (250 to 3600 psi) Spring Range Setting S MXXX Spring Setting in XXX bar	Н	6T	Aluminum SAE 6
H 8TD Ductile Iron SAE 8 H 2B Aluminum BSPP 1/4" (2) H 3B Aluminum BSPP 3/8" (3) H 3BD Ductile Iron BSPP 3/8" (3) J Seal J N Buna-N J NC Buna-N for Crossover Applications J V Fluorocarbon J VC Fluorocarbon for Crossover Applications J P Polyurethane J PC Polyurethane G Polyurethane R Spring R 05 3.4 to 34.5 bar (50 to 500 psi) Spring Range R 09 6.9 to 75.8 bar (100 to 1300 psi) Spring Range R 18 17.2 to 158.6 bar (250 to 3600 psi) Spring Range R 33 17.2 to 251.2 bar (250 to 3600 psi) Spring Range S Setting S MXXX Spring Setting in XXX bar	Н	8T	Aluminum SAE 8
H 2B Aluminum BSPP 1/4" (2) H 3B Aluminum BSPP 3/8" (3) H 3BD Ductile Iron BSPP 3/8" (3) J Seal J N Buna-N J NC Buna-N for Crossover Applications J V Fluorocarbon J VC Fluorocarbon for Crossover Applications J P Polyurethane J PC Polyurethane for Crossover Applications J U PPDI Urethane R Spring R 05 3.4 to 34.5 bar (50 to 500 psi) Spring Range R 09 6.9 to 75.8 bar (100 to 1300 psi) Spring Range R 18 17.2 to 158.6 bar (250 to 2300 psi) Spring Range R 33 17.2 to 251.2 bar (250 to 3600 psi) Spring Range S Setting S MXXX Spring Setting in XXX bar	Н	6TD	Ductile Iron SAE 6
H 3B Aluminum BSPP 3/8" (3) H 3BD Ductile Iron BSPP 3/8" (3) J Seal J N Buna-N J NC Buna-N for Crossover Applications J V Fluorocarbon J VC Fluorocarbon for Crossover Applications J P Polyurethane J PC Polyurethane for Crossover Applications J U PPDI Urethane R Spring R 05 3.4 to 34.5 bar (50 to 500 psi) Spring Range R 09 6.9 to 75.8 bar (100 to 1300 psi) Spring Range R 18 17.2 to 158.6 bar (250 to 2300 psi) Spring Range R 33 17.2 to 251.2 bar (250 to 3600 psi) Spring Range S Setting S MXXX Spring Setting in XXXX bar	Н	8TD	Ductile Iron SAE 8
H 3BD Ductile Iron BSPP 3/8" (3) Seal J N Buna-N J NC Buna-N for Crossover Applications J V Fluorocarbon J VC Fluorocarbon for Crossover Applications J P Polyurethane J PC Polyurethane for Crossover Applications J U PPDI Urethane R Spring R 05 3.4 to 34.5 bar (50 to 500 psi) Spring Range R 09 6.9 to 75.8 bar (100 to 1300 psi) Spring Range R 18 17.2 to 158.6 bar (250 to 2300 psi) Spring Range R 33 17.2 to 251.2 bar (250 to 3600 psi) Spring Range S Setting S MXXX Spring Setting in XXX bar	Н	2B	Aluminum BSPP 1/4" (2)
J Seal J N Buna-N J NC Buna-N for Crossover Applications J V Fluorocarbon J VC Fluorocarbon for Crossover Applications J P Polyurethane J PC Polyurethane for Crossover Applications J U PPDI Urethane R Spring R 05 3.4 to 34.5 bar (50 to 500 psi) Spring Range R 09 6.9 to 75.8 bar (100 to 1300 psi) Spring Range R 18 17.2 to 158.6 bar (250 to 2300 psi) Spring Range R 33 17.2 to 251.2 bar (250 to 3600 psi) Spring Range S Setting S MXXX Spring Setting in XXX bar	Н	3B	Aluminum BSPP 3/8" (3)
J NC Buna-N for Crossover Applications J V Fluorocarbon J VC Fluorocarbon for Crossover Applications J P Polyurethane J PC Polyurethane for Crossover Applications J U PPDI Urethane R Spring R 05 3.4 to 34.5 bar (50 to 500 psi) Spring Range R 09 6.9 to 75.8 bar (100 to 1300 psi) Spring Range R 18 17.2 to 158.6 bar (250 to 2300 psi) Spring Range R 33 17.2 to 251.2 bar (250 to 3600 psi) Spring Range S Setting S MXXX Spring Setting in XXX bar	Н	3BD	Ductile Iron BSPP 3/8" (3)
J NC Buna-N for Crossover Applications J V Fluorocarbon J VC Fluorocarbon for Crossover Applications J P Polyurethane J PC Polyurethane for Crossover Applications J U PPDI Urethane R Spring R 05 3.4 to 34.5 bar (50 to 500 psi) Spring Range R 09 6.9 to 75.8 bar (100 to 1300 psi) Spring Range R 18 17.2 to 158.6 bar (250 to 2300 psi) Spring Range R 33 17.2 to 251.2 bar (250 to 3600 psi) Spring Range S Setting S MXXX Spring Setting in XXX bar	J		Seal
J V Fluorocarbon J VC Fluorocarbon for Crossover Applications J P Polyurethane J PC Polyurethane for Crossover Applications J U PPDI Urethane R Spring R 05 3.4 to 34.5 bar (50 to 500 psi) Spring Range R 09 6.9 to 75.8 bar (100 to 1300 psi) Spring Range R 18 17.2 to 158.6 bar (250 to 2300 psi) Spring Range R 33 17.2 to 251.2 bar (250 to 3600 psi) Spring Range S Setting S MXXX Spring Setting in XXX bar	J	N	Buna-N
J VC Fluorocarbon for Crossover Applications J P Polyurethane J PC Polyurethane for Crossover Applications J U PPDI Urethane R Spring R 05 3.4 to 34.5 bar (50 to 500 psi) Spring Range R 09 6.9 to 75.8 bar (100 to 1300 psi) Spring Range R 18 17.2 to 158.6 bar (250 to 2300 psi) Spring Range R 33 17.2 to 251.2 bar (250 to 3600 psi) Spring Range S Setting S MXXX Spring Setting in XXX bar	J	NC	Buna-N for Crossover Applications
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R 05 3.4 to 34.5 bar (50 to 500 psi) Spring Range R 09 6.9 to 75.8 bar (100 to 1300 psi) Spring Range R 18 17.2 to 158.6 bar (250 to 2300 psi) Spring Range R 33 17.2 to 251.2 bar (250 to 3600 psi) Spring Range S Setting S MXXX Spring Setting in XXX bar		U	PPDI Urethane
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R 18 17.2 to 158.6 bar (250 to 2300 psi) Spring Range R 33 17.2 to 251.2 bar (250 to 3600 psi) Spring Range S Setting S MXXX Spring Setting in XXX bar			
R 33 17.2 to 251.2 bar (250 to 3600 psi) Spring Range S Setting S MXXX Spring Setting in XXX bar			
S Setting S MXXX Spring Setting in XXX bar			
S MXXX Spring Setting in XXX bar		33	
. 5			
S XX Spring Setting in XX psi (x 100)			
	S	XX	Spring Setting in XX psi (x 100)